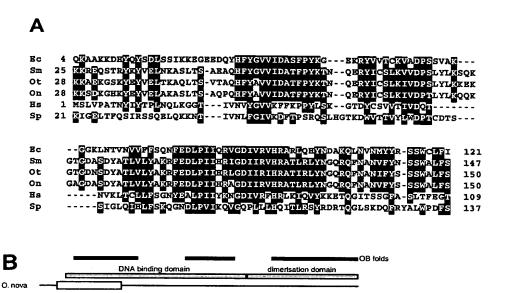
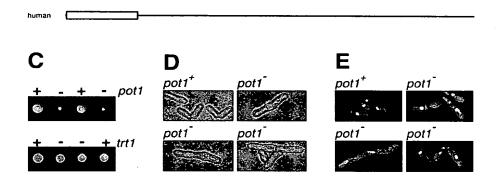
Title of Invention: "PROTECTION-OF-TELOMERE-1 (POT-1) PROTEIN AND **ENCODING POLYNUCLEOTIDES"** Inventor's Name: BAUMANN et al. Serial No. Not Yet Assigned Docket No. 2848-68-1

Agent: Angela Dallas Sebor Telephone: 303/863-9700

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#### FIGURE 1



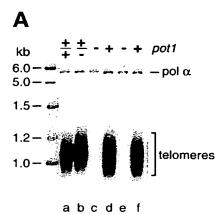


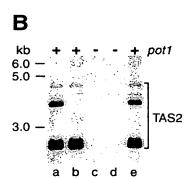
Title of Invention: "PROTECTION-OF-TELOMERE-1 (POT-1) PROTEIN AND ENCODING POLYNUCLEOTIDES"

BAUMANN et al. Inventor's Name:

Serial No. Not Yet Assigned Docket No. 2848-68-1 Agent: Angela Dallas Sebor Telephone: 303/863-9700

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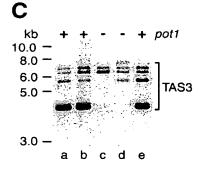


FIGURE 2

Title of Invention: "PROTECTION-OF-TELOMERE-1 (POT-1) PROTEIN AND, Integrinvention: PROTECTION-OF-ENCODING POLYNUCLEOTIDES" Inventor's Name: BAUMANN et al. Serial No. Not Yet Assigned Docket No. 2848-68-1 Agent: Angela Dallas Sebor Telephone: 303/863-9700

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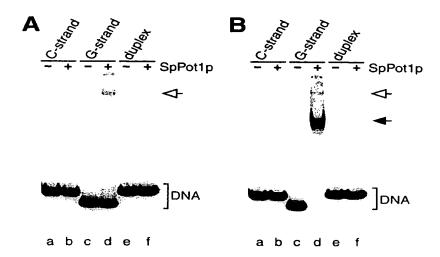
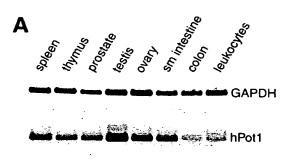


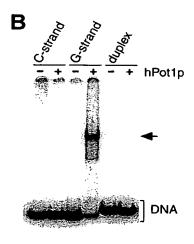
FIGURE 3

Title of Invention: "PROTECTION-OF-TELOMERE-1 (POT-1) PROTEIN AND ENCODING POLYNUCLEOTIDES"
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a b c d e f

FIGURE 4

Title of Invention: "PROTECTION-OF-TELOMERE-1 (POT-1) PROTEIN AND ENCODING POLYNUCLEOTIDES"
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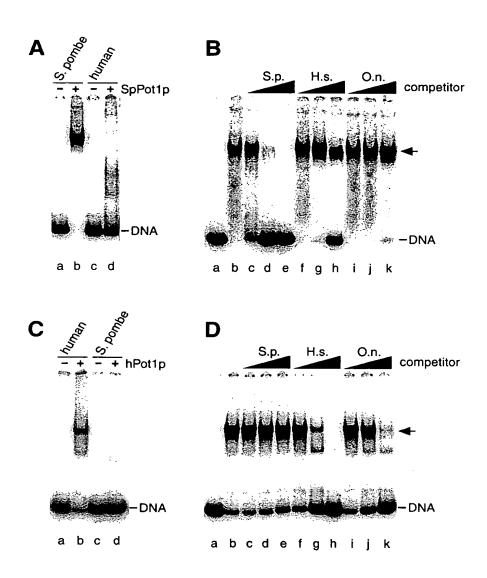


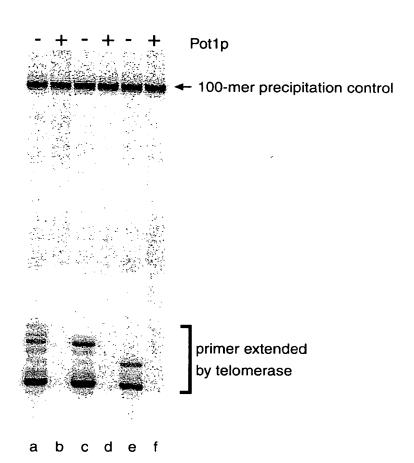
FIGURE 5

Title of Invention: "PROTECTION-OF-TELOMERE-1 (POT-1) PROTEIN AND ENCODING POLYNUCLEOTIDES"
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## FIGURE 6



Title of Invention: "PROTECTION-OF-TELOMERE-1 (POT-1) PROTEIN AND ENCODING POLYNUCLEOTIDES"
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## FIGURE 7

					tatgagtgaa	gttccatcca	13020
tgatg	caaaa	agccatgctg	tcaaccttaa	aaagtatatc	ggccattccc	gatgatgtac	13080
cccct	cctta	ttctgagttt	gctgatgata	cgacagcgca	agctggttct	agtaaaagag	13140
atage	gctat	atctgaagat	cccgatcatc	acaaaagtgt	ttggtggtct	ttgagatggc	13200
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99000	+ > + + +	atatosates	ctgagtatet	tragecticg	aagctatgct	caaacgaccg	13380
gggga	cattt	atatcgctgc	ataattggca	tttaggtttg	acgaacaacc	atgcatgttt	13440
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attati	tggta	aaataaaact	gaataaccct	tagttcatcc	taggaatttg	aagaagggga	14100
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Étagai	ttaaa	taaccaccgt	atatttgtgg	gatccaacat	gtgatacatc	aagcatcgga	14640
		acttgttcag					14700
Caacc	94t4t	tacttcatca	224424	aacgattege	cigiaattaa	gcaggcgggg	
tates	9000	tgcttcatca	aaccacacca	ayaayttata	gagacaggac	tcaaggtttg	14760
		aatttcgata					14820
		aaccaatgcc					14880
ttgtt	gttaa	ataaaatttg	ggatgagcaa	actaataaac	ataaaaatgg	cgaattattg	14940
agtaco	ctctt	ctgctcgtca	aaatcaaact	ggattgagtt	accettetgt	ctctttttct	15000
ctgcta	atcac	aaataactcc	acatcaacgt	tgtagctttt	acactcaaat	aattaaaact	15060
tagtag	caqtq	ataaaaactt	tactctttat	gtcactgatt	atacqqaaaa	tgagcttttt	15120
tttcc	aatot	ctccgtatac	tageteeteg	anatonagon	accettttaa	teagttttet	15180
ataag	ataca	ttttatggga	tagacacac	ttttactccc	gecettegg	taggettett	15240
gactai	tgtgg	ttatgaaaaa	tgtgcgaacc	aaaattgatc	accttggtta	tctggaatgt	15300
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		taaagcaaac					15540
		aattgactac					15600
		aacataggct					15660
		tgctatctca					15720
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attaac	caget	caaaaatcca	accttgcaat	ttagctgatc	acccgcagat	gactcttcag	15840
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		gaaatatcta					16260
		ttacaaaaat					16320
		tagaagttgc					16380
aataga	agctt	gatgctcatc	ggcactgcca	tgaataatat	gagggttggc	tggagatgta	16440
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cacaac	gtaca	aaatggtaag	catcaagato	aaaacaagaa	tatcagtgta	tocataatta	16620
		gaagtttcca					16680
		tggctgcgac					16740
caaaga	acgag	tatacatctg	agccttaaca	gtttgcttac	gaatacggag	atcacgaatt	16800
		aagccaatac					16860
ggagc	ggcaa	acaaaatgac	caaagactct	ttattagatg	ggctaatgaa	caaagatgac	16920
		atgaagaaac					16980

ENCODING POLYNUCLEOTIDES" Inventor's Name: BAUMANN et al.

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#### FIGURE 8A

gattgaggagtgggtcattcttttgcttgataaagaaacaaattcattattggtaaaataaaactgaataacccttagttcatcctaggaatttgaagaagggg aatgatcaagettgaacaagtaactetcaegeagtetattgaataatetgaaggtteateaettteaaggggttgtettggtttaaaaagettttaecaatteea tttaggtttctgagaaaggctaaaactcatttgttgttcttaaaggatatttggatcattcgttgatcaagcATGGGAGAGGACGTTATTGACAGTCTTCAGTTGAATGAGTTATTAAATGCTGGAGAATATAAGATTGGAGAACTTACATTT TAGTAAAAGATTTTACCCCTAGTCGCCAAAGTCTACATGGAACTAAGGATTGGGTAACCA CCGTATATTTGTGGGATCCAACATGTGATACATCAAGCATCGGACTACAGATACACTTGTT CAGCAAACAGGGAAATGATTTGCCTGTAATCAAGCAGGTGGGGCAACCGCTTTTGCTTCA TCAAATCACATTAAGAAGTTATAGAGACAGGACTCAAGGTTTGTCTAAGGATCAATTTCGA TATGCACTTTGGCCAGACTTTTCTTCTAATTCCAAAGATACTCTCTGTCCTCAACCAATGCC GGATGAGCAAACTAATAAACATAAAAATGGCGAATTATTGAGTACCTCTTCTGCTCGTCAA AATCAAACTGGATTGAGTTACCCTTCTGTCTCTTTTTCTCTGCTATCACAAATAACTCCACA TCAACGTTGTAGCTTTTACGCTCAGGTAATTAAAACTTGGTACAGTGATAAAAACTTTACT CTTTATGTCACTGATTATACGGAAAATGAGCTTTTTTTCCAATGTCTCCGTATACTAGCTC CTCGAGATGGAGGGCCCTTTTGGTCGGTTTTCTATAAGGTGCATTTTATGGGATGAGCAC GACTTTTACTGCCGCAACTACATTAAAGAAGGTGACTATGTGGTTATGAAAAAATGTGCGAA CCAAAATTGATCACCTTGGTTATCTGGAATGTATACTTCATGGGGATTCAGCAAAACGTTA TAATATGAGTATAGAAAAAGTCGATTCGGAAGAACCCGAACTAAACGAAATTAAGTCACG TAAAAGGCTTTATGTTCAGAATTGCCAAAATGGTATAGAAGCAGTAATCGAGAAACTCAG TCAAAGCCAACAATCGGAAAATCCTTTTATCGCCCATGAATTAAAGCAAACTTCTGTTAAT GAAATTACGGCCCATGTCATAAATGAACCTGCTAGTTTAAAATTGACTACTATTTCTACCA TACTTCATGCACCTTTGCAGAATCTTCTCAAACCGAGGAAACATAGGCTACGCGTTCAGGT GGTAGATTTTTGGCCAAAGAGTTTGACGCAGTTTGCTGTGCTATCTCAACCACCATCTTCG TATGTTTGGATGTTTGCCTTGCTCGTAAGGGATGTATCGAATGTGACTTTACCGGTCATATT TTTTGATTCTGACGCTGCGGAACTTATTAACAGCTCAAAAATCCAACCTTGCAATTTAGCT GATCACCCGCAGATGACTCTTCAGCTTAAAGAAAGATTATTTCTGATTTGGGGGGAACTTGG AAGAACGCATTCAGCATCACATATCGAAGGGTGAATCGCCAACTCTGGCTGCTGAAGATG TTGAAACACCATGGTTTGATATATATGTCAAAGAATACATTCCTGTAATTGGGAACACCAA AGACCATCAATCTTTGACTTTTCTTCAGAAGCGCTGGCGAGGATTTGGCACGAAAATTGTT TGA ctattgtgatacaaaacttacaataatgaaatgcttacggaaaagaaacataagaaaacaatatttaaatttaaaggaaagctctatattgggagaataagaaaacaatatttaaatttaaaggaaagctctatattgggagaataagaaaacaataattaaaggaaagctctatattgggagaaataatgaaaaacaataattaaaggaaaagctctatattgggagaaataattaaagaaaaacaataattaaaggaaaagctctataattgggagaaataattaaagaaaaacaataattaaagaaaagctctataattgggagaaataattaaagaaaaacaataattaaagaaaagctctataattgggagaaataattaaagaaaaaacaataattaaagaaaagctctataattgggagaaataattaaagaaaaacaataattaaagaaaaacaataattaaagaaaagctctataattgggagaaataattaaagaaaaacaataattaaagaaaaacaataattaaagaaaagctctataattaaattaaagaaaaacaataattaaattaaagaaaaacaataattaaagaaaaacaataattaaattaaagaaaaacaataattaaattaaagaaaaacaataattaaaattaaagaaaaacaataattaaattttataaagcgagcgaatttgtactaaggaaaaacacaga

Title of Invention: "PROTECTION-OF-TELOMERE-1 (POT-1) PROTEIN AND ENCODING POLYNUCLEOTIDES"

Inventor's Name: BAUMANN et al. Serial No. Not Yet Assigned

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#### FIGURE 8B

MGEDVIDSLQLNELLNAGEYKIGELTFQSIRSSQELQKKNTIVNLFGIV
KDFTPSRQSLHGTKDWVTTVYLWDPTCDTSSIGLQIHLFSKQGNDLPVI
KQVGQPLLLHQITLRSYRDRTQGLSKDQFRYALWPDFSSNSKDTLCPQP
MPRLMKTGDKEEQFALLLNKIWDEQTNKHKNGELLSTSSARQNQTGLSY
PSVSFSLLSQITPHQRCSFYAQVIKTWYSDKNFTLYVTDYTENELFFPM
SPYTSSSRWRGPFGRFSIRCILWDEHDFYCRNYIKEGDYVVMKNVRTKI
DHLGYLECILHGDSAKRYNMSIEKVDSEEPELNEIKSRKRLYVQNCQNG
IEAVIEKLSQSQQSENPFIAHELKQTSVNEITAHVINEPASLKLTTIST
ILHAPLQNLLKPRKHRLRVQVVDFWPKSLTQFAVLSQPPSSYVWMFALL
VRDVSNVTLPVIFFDSDAAELINSSKIQPCNLADHPQMTLQLKERLFLI
WGNLEERIQHHISKGESPTLAAEDVETPWFDIYVKEYIPVIGNTKDHQS
LTFLQKRWRGFGTKIV

ENCODING POLYNUCLEOTIDES" Inventor's Name: BAUMANN et al.

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#### FIGURE 8C

ATGGGAGAGGCGTTATTGACAGTCTTCAGTTGAATGAGTTATTAAATGCTGGAGAATATA AGATTGGAGAACTTACATTTCAGTCCATTAGAAGCTCTCAAGAATTACAAAAGAAGAATA CTATTGTCAATTTGTTTGGAATAGTAAAAGATTTTACCCCTAGTCGCCAAAGTCTACATGG AACTAAGGgtatgcttgcttatcatggtggaaactatacttttattttccagtcaagagctaataatcatgttttagATTGGGTAACCAC CGTATATTTGTGGGATCCAACATGTGATACATCAAGCATCGGACTACAGATACACTTGTTC AGCAAACAGGGAAATGATTTGCCTGTAATCAAGCAGGTGGGGCAACCGCTTTTGCTTCAT CAAATCACATTAAGAAGTTATAGAGACAGGACTCAAGGTTTGTCTAAGGATCAATTTCGAT ATGCACTTTGGCCAGACTTTTCTTCTAATTCCAAAGATACTCTCTGTCCTCAACCAATGCCT GATGAGCAAACTAATAAACATAAAAATGGCGAATTATTGAGTACCTCTTCTGCTCGTCAAA ATCAAACTGGATTGAGTTACCCTTCTGTCTCTTTTTCTCTGCTATCACAAATAACTCCACAT CAACGTTGTAGCTTTTACGCTCAGGTAATTAAAACTTGGTACAGTGATAAAAACTTTACTC TTTATGTCACTGATTATACGGAAAATGAGCTTTTTTTTCCAATGTCTCCGTATACTAGCTCC TCGAGATGGAGGGCCCTTTTGGTCGGTTTTCTATAAGGTGCATTTTATGGGATGAGCACG ACTTTTACTGCCGCAACTACATTAAAGAAGGTGACTATGTGGTTATGAAAAATGTGCGAAC CAAAATTGATCACCTTGGTTATCTGGAATGTATACTTCATGGGGATTCAGCAAAACGTTAT AATATGAGTATAGAAAAAGTCGATTCGGAAGAACCCGAACTAAACGAAATTAAGTCACGT AAAAGGCTTTATGTTCAGAATTGCCAAAATGGTATAGAAGCAGTAATCGAGAAACTCAGT CAAAGCCAACAATCGGAAAATCCTTTTATCGCCCATGAATTAAAGCAAACTTCTGTTAATG AAATTACGGCCCATGTCATAAATGAACCTGCTAGTTTAAAATTGACTACTATTTCTACCAT ACTTCATGCACCTTTGCAGAATCTTCTCAAACCGAGGAAACATAGGCTACGCGTTCAGGTG GTAGATTTTTGGCCAAAGAGTTTGACGCAGTTTGCTGTGCTATCTCAACCACCATCTTCGT ATGTTTGGATGTTTGCCTTGCTCGTAAGGGATGTATCGAATGTGACTTTACCGGTCATATTT TTTGATTCTGACGCTGCGGAACTTATTAACAGCTCAAAAATCCAACCTTGCAATTTAGCTG ATCACCGCAGATGACTCTTCAGCTTAAAGAAAGATTATTTCTGATTTGGGGGAACTTGGA AGAACGCATTCAGCATCACATATCGAAGGGTGAATCGCCAACTCTGGCTGCTGAAGATGT TGAAACACCATGGTTTGATATATGTCAAAGAATACATTCCTGTAATTGGGAACACCAAA GACCATCAATCTTTGACTTTTCTTCAGAAGCGCTGGCGAGGATTTGGCACGAAAATTGTTT GA

Titleof invention: "PROTECTION OF TELOMERE 1 (POT 1) PROTEIN AND ENCODING POLYNUCLEOTIDES"

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#### FIGURE 8D

MGEDVIDSLQLNELLNAGEYKIGELTFQSIRSSQELQKKNTIVNLFGIV
KDFTPSRQSLHGTKGMLAYHGGNYTFYFSSQELIIMFLDWVTTVYLWDP
TCDTSSIGLQIHLFSKQGNDLPVIKQVGQPLLLHQITLRSYRDRTQGLS
KDQFRYALWPDFSSNSKDTLCPQPMPRLMKTGDKEEQFALLLNKIWDEQ
TNKHKNGELLSTSSARQNQTGLSYPSVSFSLLSQITPHQRCSFYAQVIK
TWYSDKNFTLYVTDYTENELFFPMSPYTSSSRWRGPFGRFSIRCILWDE
HDFYCRNYIKEGDYVVMKNVRTKIDHLGYLECILHGDSAKRYNMSIEKV
DSEEPELNEIKSRKRLYVQNCQNGIEAVIEKLSQSQQSENPFIAHELKQ
TSVNEITAHVINEPASLKLTTISTILHAPLQNLLKPRKHRLRVQVVDFW
PKSLTQFAVLSQPPSSYVWMFALLVRDVSNVTLPVIFFDSDAAELINSS
KIQPCNLADHPQMTLQLKERLFLIWGNLEERIQHHISKGESPTLAAEDV
ETPWFDIYVKEYIPVIGNTKDHQSLTFLQKRWRGFGTKIV

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#### FIGURE 9A

ATGTCTTTGGTTCCAGCAACAAATTATATATATACACCCCTGAATCAACTTAAGGGTGGTA CAATTGTCAATGTCTATGGTGTTGTGAAGTTCTTTAAGCCCCCATATCTAAGCAAAGGAAC TTTAGTGGAAACTATGAAGCCCTTCCAATAATTTATAAAAATGGAGATATTGTTCGCTTTC ACAGGCTGAAGATTCAAGTATATAAAAAGGAGACTCAGGGTATCACCAGCTCTGGCTTTG TTTTAACTTCACTACTGAGGACCACAAAATGGTAGAAGCCTTACGTGTTTGGGCATCTACT CATATGTCACCGTCTTGGACATTACTAAAATTGTGTGATGTTCAGCCAATGCAGTATTTTG ACCTGACTTGTCAGCTCTTGGGCAAAGCAGAAGTGGACGGAGCATCATTTCTTCTAAAGGT ATGGGATGGCACCAGGACACCATTTCCATCTTGGAGAGTCTTAATACAAGACCTTGTTCTT GAAGGTGATTTAAGTCACATCCATCGGCTACAAAATCTGACAATAGACATTTTAGTCTACG ATAACCATGTTCATGTGGCAAGATCTCTGAAGGTTGGAAGCTTTCTTAGAATCTATAGCCT TCATACCAAACTTCAATCAATGAATTCAGAGAATCAGACAATGTTAAGTTTAGAGTTTCAT CTTCATGGAGGTACCAGTTACGGTCGGGGAATCAGGGTCTTGCCAGAAAGTAACTCTGAT GTGGATCAACTGAAAAAGGATTTAGAATCTGCAAATTTGACAGCCAATCAGCATTCAGAT GTTATCTGTCAATCAGAACCTGACGACAGCTTTCCAAGCTCTGGATCAGTATCATTATACG AGGTAGAAAGATGTCAACAGCTATCTGCTACAATACTTACAGATCATCAGTATTTGGAGA GGACACCACTATGTGCCATTTTGAAACAAAAAGCTCCTCAACAATACCGCATCCGAGCAA AATTGAGGTCATATAAGCCCAGAAGACTATTTCAGTCTGTTAAACTTCATTGCCCTAAATG TCATTTGCTGCAAGAAGTTCCACATGAGGGCGATTTGGATATAATTTTTCAGGATGGTGCA ACTAAAACCCCAGTTGTCAAGTTACAAAATACATCATTATGATTCAAAAATCTGGACCA CTAAAAATCAAAAAGGACGAAAAGTAGCAGTTCATTTTGTGAAAAATAATGGTATTCTCC CGCTTTCAAATGAATGTCTACTTTTGATAGAAGGAGGTACACTCAGTGAAATTTGCAAACT CTCGAACAAGTTTAATAGTGTAATTCCTGTGAGATCTGGCCACGAAGACCTGGAACTTTTG GACCTTTCAGCACCATTTCTTATACAAGGAACAATACATCACTATGGATGTAAACAGTGTT CTAGTTTGAGATCCATACAAAATCTAAATTCCCTGGTTGATAAAACATCGTGGATTCCTTC CTTGATGATGGAACAGGAGTACTAGAAGCCTATCTCATGGATTCTGACAAATTCTTCCAGA TTCCAGCATCAGAAGTTCTGATGGATGATGACCTTCAGAAAAGTGTGGATATGATCATGGA TATGTTTTGTCCTCCAGGAATAAAAATTGATGCATATCCGTGGTTGGAATGCTTCATCAAG TCATACAATGTCACAAATGGAACAGATAATCAAATTTGCTATCAGATTTTTGACACCACAG **TTGCAGAAGATGTAATCTAA** 

Title of Invention: "PROTECTION-OF-TELOMERE-1 (POT-1) PROTEIN AND ENCODING POLYNUCLEOTIDES"

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Serial No. Not Yet Assigned

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#### FIGURE 9B

MSLVPATNYIYTPLNQLKGGTIVNVYGVVKFFKPPYLSKGTDYCSVVTI
VDQTNVKLTCLLFSGNYEALPIIYKNGDIVRFHRLKIQVYKKETQGITS
SGFASLTFEGTLGAPIIPRTSSKYFNFTTEDHKMVEALRVWASTHMSPS
WTLLKLCDVQPMQYFDLTCQLLGKAEVDGASFLLKVWDGTRTPFPSWRV
LIQDLVLEGDLSHIHRLQNLTIDILVYDNHVHVARSLKVGSFLRIYSLH
TKLQSMNSENQTMLSLEFHLHGGTSYGRGIRVLPESNSDVDQLKKDLES
ANLTANQHSDVICQSEPDDSFPSSGSVSLYEVERCQQLSATILTDHQYL
ERTPLCAILKQKAPQQYRIRAKLRSYKPRRLFQSVKLHCPKCHLLQEVP
HEGDLDIIFQDGATKTPVVKLQNTSLYDSKIWTTKNQKGRKVAVHFVKN
NGILPLSNECLLLIEGGTLSEICKLSNKFNSVIPVRSGHEDLELLDLSA
PFLIQGTIHHYGCKQCSSLRSIQNLNSLVDKTSWIPSSVAEALGIVPLQ
YVFVMTFTLDDGTGVLEAYLMDSDKFFQIPASEVLMDDDLQKSVDMIMD
MFCPPGIKIDAYPWLECFIKSYNVTNGTDNQICYQIFDTTVAEDVI

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#### FIGURE 9C

ATGTCTTTGGTTCCAGCAACAATTATATATATATACACCCCTGAATCAACTTAAGGGTGGTA CAATTGTCAATGTCTATGGTGTTGTGAAGTTCTTTAAGCCCCCATATCTAAGCAAAGGAAC TTTAGTGGAAACTATGAAGCCCTTCCAATAATTTATAAAAATGGAGATATTGTTCGCTTTC ACAGGCTGAAGATTCAAGTATATAAAAAGGAGACTCAGGGTATCACCAGCTCTGGCTTTG TTTTAACTTCACTACTGAGGACCACAAAATGGTAGAAGCCTTACGTGTTTTGGGCATCTACT CATATGTCACCGTCTTGGACATTACTAAAATTGTGTGATGTTCAGCCAATGCAGTATTTTG ACCTGACTTGTCAGCTCTTGGGCAAAGCAGAAGTGGACGGAGCATCATTTCTTCTAAAGGT ATGGGATGGCACCAGGACACCATTTCCATCTTGGAGAGTCTTAATACAAGACCTTGTTCTT GAAGGTGATTTAAGTCACATCCATCGGCTACAAAATCTGACAATAGACATTTTAGTCTACG ATAACCATGTTCATGTGGCAAGATCTCTGAAGGTTGGAAGCTTTCTTAGAATCTATAGCCT TCATACCAAACTTCAATCAATGAATTCAGAGAATCAGACAATGTTAAGTTTAGAGTTTCAT CTTCATGGAGGTACCAGTTACGGTCGGGGAATCAGGGTCTTGCCAGAAAGTAACTCTGAT GTGGATCAACTGAAAAAGGATTTAGAATCTGCAAATTTGACAGCCAATCAGCATTCAGAT GTTATCTGTCAATCAGAACCTGACGACAGCTTTCCAAATGGAGTCTCGCTTCGTCCTCCAG GCTGGAGTTCAGTGGCACGGTCTCGGCTCATTGCAGCCTCCACCTCCTGAGTTCAAGCTTC TCCTGCCTCAGCCTCCCAAGTAGCTGGGATTACAGGCTCTGGATCAGTATCATTATACGAG GTAGAAAGATGTCAACAGCTATCTGCTACAATACTTACAGATCATCAGTATTTGGAGAGG ACACCACTATGTGCCATTTTGAAACAAAAGCTCCTCAACAATACCGCATCCGAGCAAAA TTGAGGTCATATAAGCCCAGAAGACTATTTCAGTCTGTTAAACTTCATTGCCCTAAATGTC **ATTTGCTGCAAGAAGTTCCACA** 

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#### FIGURE 9D

MSLVPATNYIYTPLNQLKGGTIVNVYGVVKFFKPPYLSKGTDYCSVVTI VDQTNVKLTCLLFSGNYEALPIIYKNGDIVRFHRLKIQVYKKETQGITS SGFASLTFEGTLGAPIIPRTSSKYFNFTTEDHKMVEALRVWASTHMSPS WTLLKLCDVQPMQYFDLTCQLLGKAEVDGASFLLKVWDGTRTPFPSWRV LIQDLVLEGDLSHIHRLQNLTIDILVYDNHVHVARSLKVGSFLRIYSLH TKLQSMNSENQTMLSLEFHLHGGTSYGRGIRVLPESNSDVDQLKKDLES ANLTANQHSDVICQSEPDDSFPNGVSLRPPGWSSVARSRLIAASTS

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#### FIGURE 9E

ATGTCTTTGGTTCCAGCAACAAATTATATATATACACCCCTGAATCAACTTAAGGGTGGTA CAATTGTCAATGTCTATGGTGTTGTGAAGTTCTTTAAGCCCCCATATCTAAGCAAAGGAAC TTTAGTGGAAACTATGAAGCCCTTCCAATAATTTATAAAAATGGAGATATTGTTCGCTTTC ACAGGCTGAAGATTCAAGTATATAAAAAGGAGACTCAGGGTATCACCAGCTCTGGCTTTG TTTTAACTTCACTACTGAGGACCACAAAATGGTAGAAGCCTTACGTGTTTGGGCATCTACT CATATGTCACCGTCTTGGACATTACTAAAATTGTGTGATGTTCAGCCAATGCAGTATTTTG ACCTGACTTGTCAGCTCTTGGGCAAAGCAGAAGTGGACGGAGCATCATTTCTTCTAAAGGT ATGGGATGGCACCAGGACACCATTTCCATCTTGGAGAGTCTTAATACAAGACCTTGTTCTT GAAGGTGATTTAAGTCACATCCATCGGCTACAAAATCTGACAATAGACATTTTAGTCTACG ATAACCATGTTCATGTGGCAAGATCTCTGAAGGTTGGAAGCTTTCTTAGAATCTATAGCCT TCATACCAAACTTCAATCAATGAATTCAGAGAATCAGACAATGTTAAGTTTAGAGTTTCAT CTTCATGGAGGTACCAGTTACGGTCGGGGAATCAGGGTCTTGCCAGAAAGTAACTCTGAT GTGGATCAACTGAAAAAGGATTTAGAATCTGCAAATTTGACAGCCAATCAGCATTCAGAT GTTATCTGTCAATCAGAACCTGACGACAGCTTTCCAAGCTCTGGATCAGTATCATTATACG AGGTAGAAAGATGTCAACAGCTATCTGCTACAATACTTACAGATCATCAGTATTTGGAGA GGACACCACTATGTGCCATTTTGAAACAAAAAGCTCCTCAACAATACCGCATCCGAGCAA AATTGAGGTCATATAAGCCCAGAAGACTATTTCAGTCTGTTAAACTTCATTGCCCTAAATG TCATTTGCTGCAAGAAGTTCCACATGAGGGCGATTTGGATATAATTTTTCAGGATGGTGCA ACTAAAACCCCAGATGTCAAGCTACAAAATACATCATTATATGATTCAAAAATCTGGACC ACTAAAAATCAAAAAGGACGAAAAGTAGCAGTTCATTTTGTGAAAAATAATGGTATTCTC CCGCTTTCAAATGAATGTCTACTTTTGATAGAAGGAGGTACACTCAGTGAAATTTGCAAAC TCTCGAACAGTTTAATAGTGTAATTCCTGTGAGATCTGGCCACGAAGACCTGGAACTTTT GGACCTTTCAGCACCATTTCTTATACAAGGAACAATACATCACTATGGCACTGGGTATTGT ACCCCTCCAATATGTGTTTGTTATGACCTTTACACTTGATGGAACAGGAGTACTAGAA ATGACCTTCAGAAAAGTGTGGATATGATCATGGATATGTTTTGTCCTCCAGGAATAAAAAT TGATGCATATCCGTGGTTGGAATGCTTCATCAAGTCATACAATGTCACAAATGGAACAGAT AATCAAATTTGCTATCAGATTTTTGACACCACAGTTGCAGAAGATGTAATCTAA

Title of Invention: "PROTECTION-OF-TELOMERE-1 (POT-1) PROTEIN AND ENCODING POLYNUCLEOTIDES"

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#### FIGURE 9F

MSLVPATNYIYTPLNQLKGGTIVNVYGVVKFFKPPYLSKGTDYCSVVTI
VDQTNVKLTCLLFSGNYEALPIIYKNGDIVRFHRLKIQVYKKETQGITS
SGFASLTFEGTLGAPIIPRTSSKYFNFTTEDHKMVEALRVWASTHMSPS
WTLLKLCDVQPMQYFDLTCQLLGKAEVDGASFLLKVWDGTRTPFPSWRV
LIQDLVLEGDLSHIHRLQNLTIDILVYDNHVHVARSLKVGSFLRIYSLH
TKLQSMNSENQTMLSLEFHLHGGTSYGRGIRVLPESNSDVDQLKKDLES
ANLTANQHSDVICQSEPDDSFPSSGSVSLYEVERCQQLSATILTDHQYL
ERTPLCAILKQKAPQQYRIRAKLRSYKPRRLFQSVKLHCPKCHLLQEVP
HEGDLDIIFQDGATKTPDVKLQNTSLYDSKIWTTKNQKGRKVAVHFVKN
NGILPLSNECLLLIEGGTLSEICKLSNKFNSVIPVRSGHEDLELLDLSA
PFLIQGTIHHYGTGYCTPPICVCYDLYT

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#### FIGURE 10A

gatetttttttetgggetaatteatatgaeteaaatteattatagttgeataataatgattgtattettttteatttteatttaatagatgttgagategttaeeagtttt ttgctcttacaaataatactttaataaacatccttgaatatatgtacttccatgtttttacttctccacaataaactaaaagtgaggtcgatgtatctaaggttatg cacattttttaatagatgctgccagattatttaccaaaggtcatagaaatttatatccaaatagcagtgtaggagaatatactttactcacaccttcacagtattattaccaaatagcagtgtaggagaatatactttactcacaccttcacagtattataccaaatagcagtgtaggagaatatactttactcacaccttcacagtattataccaaatagcagtgtaggagaatatactttactcacaccttcacagtattataccaaatagcagtgtaggagaatatactttactcacaccttcacagtattattaccaaatagcagtgtaggagaatatactttactcacaccttcacactagtattaccaaatagcagtgtaggagaatatactttaccaaatagcagtgtaggagaatatactttactcacaccttcacactagtattaccaaatagcagtgtaggagaatatactttaccaaatagcagtgtaggagaatatacctttaccacaccttcacactagtattaccaaatagcagtgtaggagaatatactttaccaaatagcagtgtaggagaatatactttaccaaatagcagtgtaggagaatatactttaccaaatagcagtgtaggagaatatactttaccaaatagcagtgtaggagaatatactttaccaaatagcagtgtaggagaatatactttaccaaatagcagtgtaggagaatatactttaccaaatagcagtgtaggagaatatactttaccaaaccttcaccagtattactaccaaatagcagtgtaggagaatatactttaccaaaccttcaccagtattaccaaatagcagtgtaggagaatatactttaccaaaccttcaccaccttcaccagtattaccaaatagcagtgtaggagaatatacttaccaaatagcagtgtaggagaatatacttaccaaatagcagtgtaggagaatatacttaccaaatagcagtgtaggagaatatacttaccaaatagcagtgtaggagaatatacttaccaaatagcagtgtaggagaatatacttaccaaatagcagtgtaggagaatatacttaccaaatagcagtgtaggagaatatacttaccaaatagcagaatagaatagcagtgtaggagaatatacttaccaaatagcagaatagcagtgtaggagaatatacttaccaaatagcagaatagcagaatagcagaatagcagaatagcagaatagcagaatagcagaatagcagaatagcagaatagaatagcagaatagcagaatagcagaatagcagaatagcagaatagcagaatagcagaatagaatagcagaatat gtata at aga at gtata ag tata aga at aca a at tata ag tetta attgctttcttgttagagtaaaatcctatttttgatgttcatttggtcattctattaaatttcataagtttactattttatccatctccgcttttatttcctctacactgtatttttatga a cata attag ctag a gitt attag a gittittattitt gag gitaa aa attag cag t gaa at g ga ca a cittic cattittat gaa ccact ccat gag a cag a cata gitti attag a cact ccat gag a cact cat gag a cac gag a cact cat gag a cact cat gag a cac gag a cact cat gag a cac gag a cttttgactaatacataaacgtgtaacccaaatccctctagatttgctgttctagaactttgaaaaaattgaatcatatgtactctttttgtatatactatatgtttttgagagtta at cacattgttg catatac attagtttgtttccttttta attgcctagtcacatgatatgcggtagac atttttctttagataggaatttctagttgttatga cat catt gettice that cattag at ggettica at getting to an action and cattag at ggetting the cattag at getting the cattag at gettgtett gaagte at gtact ag at the case the grant of the control ofgagatggggtttcaccattttggccaggctggtctctaactcctgatctcaagtgatctgcccacctcagtcctccgaagtgttgggattataggcgtgagccact g t g ccacccag cet ct g ct attt t cgaa g g att at g ct g attt a cag att attt g g a g a g att g at at ct a a cag att at g a g att g at a ct g at a cttga at gtgg cata to to accatt that that at the total cag catacate at general total can be a considered at the total cag atttcctttttatagGCTCTGGATCAGTATCATTATACGAGGTAGAAAGATGTCAACAGCTATCTGCTACat at cetta a a geta a a at a tetra transfer in the tetra and the tetra at gt g ca at gt aa a ga ca ca t at cttta aa ct at t ac at ga ag ag t t at cct gt ca cat ga t g ca t t t aa ca gt gt ac ca t aa ag ga gct cct t g ca at at g ca t t ac a ga ga gct cct t g ca at at g ca t g ca t t ac a ga ga gct cct t g ca at at g ca at g ca t g cacacaa atttatta aat g t g cat t g t aa aa aattta att t cacaa at g g g aa g aa g g acacte cag tige cata age accteg gige teagatett gg titata aata at atticte taa aggaat cag age teeting gigaa accag cag attict gamma to the contract of the contrgaacatgtctaggaacatttgagcatcaaaacaaataatactaattgagtaaagcaggaatgcatgagcccatgttgatgatgataaaggaaaaataaaa tcattgttgagttagttgtgaatctgtggattctaaactatcaggatatttgatgaaaaataagatatttacattttctctagtatattcttgttaaatacaagggggattgtgagttgtgaatctgtggattctaaactatcaggatatttgatgaaaaataagatatttacattttctctagtatattcttgttaaatacaaggggggattgtaaatattacattacattgtgatgcactgagaagcatacagtatcacttacgcattattcctgccaaaaatgcataagctaaatctgagcctgaggaataaccagacaacacccaaattggtgtttattctacagaataaatggctgtactcttcaaatatatcagtgttgtgaaagataaagaaaagccgaggacttattttacattaaagaagtctaaag ca at gata a at gt g ca a a a at gt ga a at gt ga at cit g gt ga at att at a cag a a g gt cit t gt at gt t t g at gt ga at ga at gt ga at ga at gt ga at ga aa at gaaa ag tta aaa acttt ag g tta aaa tat gag ttt gaag caatt g ct cttat cact g t g tag caat g tacac taaa t t g at cag g t ct g ccaat g g cct t t t cact g t g t aaa t g ac caat g g cct g ccaat g g cct t t t cact g t g t aaa t g ac caat g g cct g ccaat g g ccaat g ccattttttttttttttttttttgaggcggagtetegetgtegeceaggetggagtgeagtggeactatettggeteactgeaagetetgeetteegggtteaegeeatt 

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#### FIGURE 10B

ctttttaaaagcatcaccagctgggtgcagtggctcacgcccgtaatcccagcactttgggaggccgaggcgggcagatcacctgaggacgggagtt cgaagccagcctgaccaacatggagaaaccccgtttctactagaagtacaaaaattagctgggcgtggtggtgcatgcctgtaatcccagctacttagg aggctgaggcaggagaatcgcttgaacctgggaggtagaggttgtggtgagcagagatcgcaccattgcactccagcctgggcaacaagagggaagaggtgtaattacttgaaatatctaattaagtgatacagagagccttgttggtaaacttctgtccttcttggccatttgctccttgaaggaaaactaattcaacaagaatttcattggattaaagctcagtactgaaaggaattgtcttcgccattgaggttaataagatttgtacatcatttcccttttctaaaacacatgaaagtgtta agctagaatgtatagcaagctgttgccttaagctaagggtcaccagcaattttatactttttcccagtaaaaactgatcactacaatcccaggccatctttcc a caugitaget gaggaga acctatt gacctatt the ceagge a attget ceta at getting tegag thin the cagiting accta actic extent at the capital content and the content account of the content actctgattttataatgatggttctgtaaaaagtaactgatttgaaacatccaagagcctgcaaataatatttgcaaataatattttacaagtgtgttttgttacattctttetteeeceaaattateeagegtttatttagtaeaeatttgttgagtaeetaetgtgeetggeactatgetagtgggeettgggtataeateagggaataaagTTTTGAAACAAAAGCTCCTCAACAATACCGCATCCGAGCAAAATTGAGGTCATATAAGCC CAGAAGACTATTTCAGTCTGTTAAACTTCATTGCCCTAAATGTCATTTGCTgtgagtattttccataataa ttttttaggtaaagtgctaaattettagagaataaattattctgatagtaataaagtgggtgctattttcagatctaaaattcagcttagtcactctgataaaggagtgctattttcagatctaaaattcagcttagtcactctgataaaggagtgctattttcagatctaaaattcagcttagtcactctgataaaggagtgctattttcagatctaaaattcagcttagtcactctgataaaggagtgctattttcagatctaaaattcagcttagtcactctgataaaggagtgctattttcagatctaaaaattcagcttagtcactctgataaaaggagtgctattttcagatctaaaaattcagcttagtcactctgataaaaggagtgctattttcagatctaaaaattcagcttagtcactctgataaaaggagtgctattttcagatctaaaaattcagcttagtcactcttgataaaaggagtgctattttcagatctaaaaattcagcttagtcactcttgataaaaggagtgctattttcagatctaaaaattcagcttagtcactcttgataaaaaggagtgctattttcagatctaaaaattcagcttagtcactcttgataaaaaggagtgctattttcagatctaaaaattcagcttagtcactcttgataaaaaggagtgctattttcagatctaaaaattcagcttagtcactcttgataaaaaggagtgctattttcagatctagatctaaaaattcagcttagtcactcttgataaaaaggagtgctattttcagatctacaa at gaga aa taa at aa at gat gaa ta ta titt gg gc ag act catt g t cac ag aa gt at cit c t gaa aa ta taa acct ti at taa act gaa aa titt t gaa ag gag ti cit cac ag aa gt act cat gaa aa ta taa acct ti at acct ti at taa acct ti atgta attacttga aatat caatta ag t gataa ag ag ag cett gtt gg taaactt ct gt cct gcttaataacta gaatataa taaattaa attacattt ta gtaattactt gaatataa taaattaa attacattt ta gtaattactt gaatataa taaattaa attacatt ta gaatatact gaatataa taaattaa attacatt ta gaatatact gaatataa gaatataa gaatataa gaatat gaataattgaga atttete agtgeettta et et gaacate agtgatta ta ta aaatat gtaataa at gtatataa et gtttt gtaat eet titta et actae agtgete aa gaetaa at gaacate agtgat gaacate at gaeta agtgaga et actae actae agtgaga et actae agtgaga et actae actae agtgaga et actae actae agtgaga et actae actaegcatttggatgccctaaattgagtcttcactaaaatgtgctacaatgtgtaaatatctatgtacatcgccatgtatttgtgtgcttataaattgtgagtatctgtgtaaatatctatgtacatcgccatgtatttgtgtgcttataaattgtgagtatctgtgtaaattgtgagtatctgtgtaaattgtgagtatctgtgtaaattgtgagtatctgtgtaaattgtgagtatctgtgtaaattgtgagtatctgtgtaaattgtgagtatctgtgtaaattgtgagtatctgtgtaaattgtgagtatctgtgtaaattgtgagtatctgtgtaaattgtgagtatctgtgtaaattgtgagtatctgtgtaaattgtgagtatctgtgagtatctgtgtaaattgtgagtatctgtgtaaattgtgagtatctgtgtaaattgtgagtatctgtgtaaattgtgagtatctgtgtaaattgtgagtatctgtgtaaattgtgagtatctgagtatctgtgagtatctgtgagtatctgtgagtatctgtgagtatctgtgagtatctgtgagtatctgtgagtatctgtgagtatctgtgagtatctgtgagtatctgtgagtatctgtgagtatctgtgagtatctgtgagtatctgagtatctgtgagtatctgagtcaga aga aagc cata cacctttt gattee aa at gat ge catttet ge ta cat gg ta ceta accata t ga cttetta aa at ta ta aa caga at t gg aa cat ga cat gat attattag tittaga ag tig coefficie ceta ag tig tig gata gat gat attattag tittaga ag ac gig gac ac tig cat titt titte ceta c tig ga a attattag tittaga ag ac gig gac ac tig cat titt titte ceta c tig ga a attattag tittaga ag ac gig gac ac tig cat titt titte ceta c tig ga a attattag titt ga ac gig ga ac titt ga ac tittttggatatacttacccacaaaatatcaaataattatctattgaaaaaaagttatttgttctgcaaagtgaattatctccataatttacataatttaagaaaaagtaatttgttctgcaaagtgaattatctccataatttacataatttaagaaaaagtaatttgttctgcaaagtgaattatctccataatttacataatttaagaaaaaagtaatttgttctgcaaagtgaattatctccataatttacataatttaagaaaaaagtaatttgttctgcaaagtgaattatctccataatttacataatttaagaaaaaagtaatttgttctgcaaagtgaattatctccataatttacataatttaagaaaaaagtaatttgttctgcaaagtgaattatctccataatttacataatttaagaaaaaagtaatttgttctgcaaagtgaattatctccataatttacataatttaagaaaaaagtaatttgttctgcaaagtgaattatctccataatttacataatttaagaaaaaagtaatttgttctgcaaagtgaattatctccataatttacataatttaatttaatttaattaattaattaattttagGCAAGAAGTTCCACATGAGGGCGATTTGGATATAATTTTTCAGGATGGTGCAACTAAA  ${\tt ACCCCAGaTGTCAAGcTACAAAATACATCATTATATGATTCAAAAATCTGGACCACTAAAAA}$ TCAAAAAGGACGAAAAGTAGCAGTTCATTTTGTGAAAAATAATGGTATTCTCCCGCTTTCA t t cata a attitat cita atta cattiga a attiga a attiga cit ca ag cita a cattita a cattiga cattitat cita attiga cattiga cattiatcaaaatcaaagaagaaccattgaaacaagtaaagataacttgacaagttttaaatgaaatttatcatgtttggtttttcattttcattttcatctaattttt at cte attract a a a at a tigract g tigra at tittiff cat give a attract a given the tigract grant gracctic tita attig cetta gagta at attita actita titi ta ataa atgaggga attetat gaa attat agactit gggt gattat gt gt cagtat aggt cattitt titta atta attig actit gggt gattat gggt gattat gggt cattitt titta attig gggt gattat gggctgtgaacctaaaactgctccttaaaaaaaaaaaaaaatgaagtcttaaaaagaaaacatagaatgtacaacactgagagtaaaccctaatatagactgga ctttgagtgataatggtttgttagtaatgtaaagtgtggactttgagtgataatggtttgttactaatgtaaactgtggactttgagtgataatggttttttaaaatggtttgttagtaatggactttgagtgataatggtttttaaaatggtttgttagtaatggttagtaatggtttagtaatggtttagtaatggtttagtaatggtttagtaatggttagttagttagtaatggttagttagttagttagttagttagttagttagttagttagttagttagttagttagttagttagtttttttattttatgtttctaagtattataacctggaccaagggctaggatcttactgcagtatggcactgctctggttaggaagtaacaaaatcaaaaactgacct

ggacttagagatgaaccaaagaaaacgatataaatacaaagtcattcttagactttaaggacctgcagcagtattcactgatattcatgccaagttaatgca

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#### FIGURE 10C

gttgacactattttattgtgaccatagtttacattagggttcactcattctgctttacagttctttatgttttgacaaatgcagaataccatgtaccaccattaga gtetcatataaaacagtatcacttaattictgtaaaagetetaagatetgtgtecagatttttttttgcatgcagatgtecagttttecagtaccatttettaaaaag act gtteet tete catt gaat t gettet til gteaaace ag til gt gaat til gettet gt gt tete tattet gt til at tete gaat te gaat til gette til gt gaat til gette til gaat til gette til gaat til gette til gaat til gaccatect tatte taa age tata agraattett gaa att gt gaa gt gt tag tatte te te tatte ta gaa att gt gaa att gaa att gt gaa att gaa att gt gaa att gaa aagategegecattgeactee agectgggtaaca agagegaa actteateteaaaaaaaaa agattgee ataateta ta agteae ggtggaga cagaalanda agattgee ataateta agteae ggtggaga cagaalanda agattgee agattggaacta ace actigat gat gate ace at gactate titlet at gate cette tag at cette tagtttatcccagtcttaggtggaaagtgtcaccattaaatgtaattttagctgtggctattttatcgatgttctttatcaagttgaagaagttccccaatattcctagttaggtggaaagttgtaggaagattcccaatattcctagttaggtggaaagttgtaggaagattcccaatattcctagttaggtggaaagttgtaggaagatgtcaccattaggtggaaagttgtaggaagattcctaggttgtaggaagattgtaggaagattcccaatattcctaggttgtaggaagattgtaggaagattgtaggaagattcccaatattcctaggttgtaggaagattgtaggaagattcccaatattcctaggttgtaggaagattccccaatattcctaggttgtaggaagattcccaatattcctaggttgtaggaagattccccaatattcctaggaagattcccaatattcctaggaagattccccaatattcctaggaagattccccaatattcctaggacatta att gatttt gaggt gttta accag cott go catacaaaa taaat cott to gatta att gatta gatta att gatta gatta att gatta gatact gract a gtt a total total total total acceptate the total and total totaggtgaagtactcaaggttaaagacttaataaatgtcagaaaaaaattcaaacttaggcctttctgtctccatagtccatgttaaatatttctactgattgcaaataggccatagttaaatagtcagattgcaaataggccatagttaaataggccatagttaaataggccataggtaaaataggccataggtaaataggccataggtaaataggccataggtaaataggccataggtaaaataggccataggtaaaataggccataggtaaaataggccaa a attget ct cag tt agg at g tet ce agata caa acctt g agaa at g t agt at g te atta ta cat g te at a tet cat the tension of the tension ofgtttattgaatgcctactatgtgccagacactgatttaggcattagtggcaatgtagcaaacacaacaaagttcttcctttcatggactttacattaagaggaa tttttaag catg cataat gag ag tttctatctag ctg caatat gatat ag cagaa ctct gg ctt ccag taacaa ag ag ctt gg gg gaa gg gag gag accept gag cataat gatat ag cataat gag cataagg caa a gtaaaat gccaca gagct caccgttctt gccaaaat t cagccctttt tct ggagcaaac acccctt ggat tgt gaa ggcat ct tggtaat ttccacactgt table to the state of the stateaga atteta aa aa aggtttta cagtttttg ccaatattetta ctgctgtta tagtca agtgtgtctttggatgtcctcactctgcta taccaga agtgcttctcctttat a att ga at gt t ga catta caa att ctacccaa att tt aggaa at acca ga gg t att tt tt a a at cett tt catt tt gc ct gg ag ag gg ag ga att att ag ct acca at tt tag cat acca at tt tag ct accas at tt tag ct acca at tt tag ct acca at tt tag ct acca at tt tt tag ct acca at tt tag ct accas at the tag ct accase at the tag cta agta a a aggacact ge cit cita at a at gg at ge catt gg a cattact cit cag e cag cet gg te at tig a at get the cit cattag and the cit cattag anda attite ccaggaa aa attgaacta aattta tatgtgaatt catatta catgaactact catat ctatattta aattgaactagaa aattgaactagaactact catat catatta aattgaactagaa aattgaactagaactcta a attige ce agatatta attag ta ta ta gea a attag ta ga a attige a cata a cttag att ta attige access a gatatta attige access a cata attige access a consistency of the consistency oCAAGTTTAATAGTGTAATTCCTGTGAGATCTGGCCACGAAGACCTGGAACTTTTGGACCTTT ttaagttetggggteatgtgetgaacatggaggtttgttacgtaggtatācacgtgctattgtggtttgctgcacccatcaaccegtcacctgcattaggcat atgagtgagaacatgcagtgtttggttttctgttctggtgttagtttgctgagaatgattggtttccggctttatccatatgcctggcaaggacatgaactcatcctttttttggctgcatagtattccatggtgcgtatgtgccacattttcttaatccagtctatcactgatggacatttggtatagttccaggtctttgctattgtgaat agtgctgcaataaacgtacatgtgcatgtgtctttatagcagaatgatttataatcctttgggtatatacccagtaatgggattgctggatcaaatggtatttctctetttagtttaattaggteecatttgteaattttggettttattgeettttggtgtttttagaeatgaagtetttgeecatgeetatgteetgaatggtattgeecatgeetatgteetgaatggtattgeecatgeetatgteetgaatggtattgeecatgeetatgteetgaatggtattgeecatgeetatgteetgaatggtattgeecatgeetatgteetgaatggtattgeecatgeetatgeecatgeetatgteetgaatggtattgeecatgeetatgteetgaatggtattgeecatgeetatgteetgaatggtattgeecatgeetatgteetgaatggtattgeecatgeetatgteetgaatggtattgeecatgeetatgteetgaatggtattgeecatgeetatgteetgaatggtattgeecatgeetatgteetgaatggtattgeecatgeetatgteetgaatggtattgeecatgeetatgeecatgeetatgteetgaatggtattgeecatgeetatgteetgaatggtattgeecatgeetatgeecatgeetatgteetgaatggtattgeecatgeetatgeecatgeetatgteetgaatggtattgeecatgeetatgeetatgeetatggtattgeetgaatggtattgeetgcaggtttccttctaggattttatggttttaggtcttacatttaagtctttaatccatcttgagttgatttttgtataaggtgtaaggggatccagtttcagttttctgcatttaggtttattttaggttttaggttaggttaggtttaggtttaggtttaggtttaggtttaggtttaggtttaggtttaggtttaggttag

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## FIGURE 10D

at at ggct agc cag titte ccaa catt at taa at agggaat cottle cccatt gettigt titting te aggittigt caa agat cag at ggt tig cagcttatatgtactaggtttttctggcatatatctgttcttttgataagcatatatgtgaggagtacacgcaatgtgtgaggcataaggctgctgtcttttgattcctcagccagaggetggtactcacttgttttctttaacagtgaggatttagattccagttacagagaaaaattcagagetgcaaacctagtaaaaattaagtgattcagaggattagattcagaggattagattcagaggatggtactcagttacagaggatggtactcagttagattagattagattcagaggatggtactcagttagattagattagattcagaggatggtactcagttagattagattcagaggatggtagattcagatgatgattagattcagaggatggtagattagattcagaggatggtagattagattcagagaggattagattagattcagagagattagattcagagagattagattcagagagattagattcagagagattagattcagagagattagattcagagagattagattcagagagattagagattagattcagagagattagattcagagagattagattcagagagattagattcagagagattagataatttcagaatttctgagccactaaattacaaatttgctgccactgaaaattggaatataaaagaattcattaggagctataaacagatttctacatttagaag ttcctctttctttccgacttctacatttgtagcaattagtagtcattgtcataatgtgtaaatcctgattgaaaaaattatatactggttgaaaaaatattatacggtaagcat gatacct cccta att gt gt gg taa ag t cact gt tag gcat t gccct ct gt cct t ccaa cat at cata aa att tt ag ccata a ag cga aa gt gt at gccata a cata t cata aa att tt ag ccata a ag cga aa gt gt at gccat gat act contains the contained of the coatttttaattaageeaattaattaaaaaattaaacteataaaatteagtttttettgtataataagteactgagetttetetttttgeatgeteateetegeteaettg g cat gate teaget caet geaacctet gcet cee cggt teage gattet cet gtet caacce cee ceg cgg ag taget ggae tae ag geat geae caet geaaccaet geaaccaettaacacccggctgattgtttcgtattgttattagaaacgaggtttcaccatgttggccaggctggttttgacctcctgaccttaggtgatctgcccacctcgg gaga cagtg t cattet gatac caggetga agtg geat gattte age ctattg tage ctt gae act eet ag cet cagget can gee the contract of thactagetgggactacaggtgcacaccaccaccaccacggtgatttttgtagggattggccatgttgcccaggctgttcttgaactctggagttcaalland and a second control of the control otettttttet cagaggtag ctactttte caaa ett ggattaaat eette ctacta at gtttttat geette att at at gt gt gaae tettaag cag at ggeat at titte en tettat at geet gaae tettaag cag at ggeat at titte en tettat geet gaae tettaag cag at ggeat at titte en tettat geet gaae tettaag cag at ggeat at titte en tettat geet gaae tettaag cag at ggeat gaae tettaag cag at gaae tettaag at gaae tettaag cag at gaae tettaag at gaae tetta at gaatttetta ct g t g a g t cetta a caa aa at g t t t g a a g t t a c t g a a at t a c t g a a a t t a c t g a a at t a c t g a at t a c t g a attatgggaagaaataccaaattgttcttcccatggttttaacaatatatggtcccatcagtaatgtataaaattttagtttctaccaagttcactccaacacttggtattagt ctattict g ctagatact t g cattagt cattagt cattagt cattagt cattagt ctattict g cattagt g cagtgtttaag cag ccccgtgtttat cag cta cat ag gttt cct act ctat ga at t ccat gtt cacat ctt tt g cct gtttt ctat gt gg tt act ga tt tt act gg tt act ga tt acteat gtg t ag egea cata cat gta at t gat t gat t gat t gat t gat t gat t ag t gat t cat gt gt t gat t gatact cata a a tag a gettat a gettat a gettat a attitude titta a tittat a gettat a gagtettagatttatatacattteaaaagttaactatggaattaggcatcataaactacaaacctetggatatgtgettactaaaaatattaattaattagaatettgcat gtt gt gact gtt tagta att tittet et att gecat att tatta acaett tga att tatta agat att act tae agag gecag gt at gg t gg et ea eacet gt aan tatta et acae gag gecag gt at gg t gg et ea eacet gt aan tatta et acae gag gecag gt at gg t gg et ea eacet gt aan tatta et acae gag gecag gt at gg et eace et gag et acae et acaetecca g tactttggg aggeca agge agge ag at ggettg aget cag gagttg agac cagect ggg cat tg tg ge aa gae cet g tecta ta aa aat ta can all tack the contract of tha aa at cacca agg cat ggt ggt gg caact gt ggt tot agct act t gg aa gg ct gag gt gg ag gc cact t gag cc cag gag gc ag agg t gaa gg ct gag t gag ag gc cact t gag cc cag gag gc ag ag gt gaa gg ct gag t gag ag gc cact t gag cac gag t gag ag gc cact t gag cac gag t gag ag gc cact t gag cac gag t gag ag gc cact t gag cac gag t gag ag gc cact t gag cac gag t gag ag gc cact t gag cac gag ag gc ag gc ag gc ag gc ag gc ag gc atotga a totta tact g tott mittatt g ccctt at g ta a tactet t totta a tott cat a a totta tactet tactet tactet tactet tactet tactet tactet totta tactet tagATGTAAACAGTGTTCTAGTTTGAGATCCATACAAAATCTAAATTCCCTGGTTGATAAAACA ctt at attic a gtata cet gaa a gtata cet gticet tetti gtata cittatic ctic et gta a gata a a caga citt gta a attia a a gata i ct geca a gcette cittati a gata a a caga citt gta a a ttia a a gata i ct geca a gcette cittati a gata a a caga citt gta a a ttia a a gata i ct geca a gcette cittati a gata a a caga citt gta a a ttia a a gata i ct geca a gcette cittati a gata a a caga citt gta a a ttia a caga citt gta a caga citt gta a a caga citt gta a a caga citt gta citt gta a caga citt gta a cagactttagtctgtatttcttcaagcaggcaccgtcacatactttcccctatgccttactattttgtttttctcctcctcagtaagcattccactttaccagtgcttttctcag

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#### FIGURE 10E

a atttgg cattcag ag ctgg ac attgtg ctg cag at gttgtttgg cca att cag aat ag ag tga aatt att att ac ctga aac tgga cac tcag ctt ctac tag ac tcag ctcag ctcagctg t cacatga act to ttg a act to g to ctact at the transfer act to the transfer act to g to ctact the transfer act to the tatta at get eight general test get eight eight general test get eight general test general testaaaacattetataaattgagtatetteeattteeaaacaagaagatatttatettaaeetgtgaatttteattttaeeeagtatgtetaatttettatttetteettatet taccaaattattaaatctcagattctgacattcttgtccattcaaccagatgatatccctttttcttttttaaagttataaattattcccctagcttataatagaaag g caate tegacte act g caacetet g catecoag gt tea agea at te teat g cet cag age agea gag aget g gaat ta cag gt g ta te teat g cet cag agea gag aget g gaat ta cag gt g ta te teat g cet cag agea gag aget g g a teat g cet cag age g caate to g a teat g cet cag age g caate to g a teat g cet cag age g age g age g age g caate to g a teat g cet cag age g ageagct at tittitt ggt at tittagt ag ag ac agggt tit cat cat gt tig ge cagg tit ga ac tect caa gat cog coe agg tig at citizen cat get gat considerable and the considerable aggregation of the considerable and the considerable aggregation of the considerable aggregation aggregtcccaaagtgctgagaatacaggtgtgagggtgtcaacttattttaaatacgttaatatttaatcaaaaagattaaattgcttatcataagatattctccctatgtagca at cage g caga agact tat g t g acca a at g cat agg g g tt the acce acca acca age agg ca at ceet cage agac g cage t g g g t g teet ag cage agg cage to g a cage agg cag agg cage agg cage agg cage agg cag agg cag agg cage agg cage agg cage agccagit caat tot gacactate tacct gg agata at gcca agttittettig tatettig agttattit agata aataa aattta ccaggie ctata et acaa aacaat acaa tot gacactate consideration and the consttta actita cettgata at aaggaatag cagact catatg gttt gatettittteette actag CACTGGGTATTGTACCCCTCCAATATGTGTTTGTTATGACCTTTACACTTGATGATGGAACAGGAGTACTAGAAGCCTATCTCATGG ctcccgggttcaagcagttctctgcctcagcctcccaagtagctgggattgcaggtatgcaccaccacgcccagctaatttttgtatttttgtagagacagtagcagttcaagcagttcaagcagtagagacagtagagacagtagagacagtagagacagtagagagacagtagagagattgcaggatacaaaaccttcctcatttctgacactaattgcaattggaagtcctcaaggccactcttagatttgataattcacaagactcctagaactcactgaaaactgttatactgacagttacagattattacagctaaaggatgtacattaaaatcagataatgaaaggatgtataggacagagtccaggaaagttccagacatgga agattttagtgggactctatcacgtaggttaggttgactgcccatatggctgatcatagtcttcagcccctcttgagatcaagctgataccacatgctccaaactttccaccctacatcatattgttaaactattcatagtgacccagggcttccaggcaaaaatacttctatcaagtgtgacatagaaagggcttagagattac gttccacaagctaaggtcaaagcccagacctctttagggtaaagttaaaatgtttactacatggattggaaaagatctgagttatagttgagaggagaat ttttctcccacctacacattcatttaacctttcattaaatatttaatgagcacctgctatgtactaggacatctatcctatgtgatggagacacagggggaacaaagtaaacaaaattccttccttcttgaaacttataacatagtagggaagagaaaattaaataactatataatactgtatgttatattcatttaagcttag caca agatt tttttttctat gcacaa agagaa tagt cagcct catt gttttta aat cattatta ccat cattatta aat cagag ca atttact t gattac gt gt at tagt tttta aat cattatta aat cagag ca atttact t gattac gt gt at tagt tttta aat cattatt aat cagag ca atttact gattac gt gt at tagt tttta aat cagag ca atttact gattac gt gt at tagt tttta aat cattatt aat cact caa agc tatt tta agat ta aa agag ta aa taag at ttt gag tt gag ac cag catt ctag at tta tag at tct acaat ctt gat agag gaa ac t g tct agat tag at tot acaat ctt gat agag gag ac ct g tct agat tag at the tag at tagtettttaattggacaatattggaaatatgtgttaataataacattaaaaaggattaatattattteettttttttetetetatgaaacatttttaagGACAAATTCTTCCAGATTCCAGCATCAGAAGTTCTGATGGATGATGACCTTCAGAAAAGTGTGGATATGA TCATGGATATGTTTTGTCCTCCAGGAATAAAAATTGgtaggcaagaatattttaacaatcccacacttctttacttgag at agcacta a cata tat g tactet g t g act titt agaa g tet g aa agct tit g cat cata agt tactet ag tit g at tactet agat tactet agat cat cat tit g at tactet agat to take the tactet agat tactet agat to take the tactet agat tactet agat to take the tactet agat to take the tactet agat tactet agat to take the tactet agat ta ${f gcacatttgacattgtcatgctacaagcattttagttgaaattagaccaaaagtgatgaattgttggcagtaaacattttctgtaacaaactccaattatccaattgacatttgacattgtcaagcattttagtaacaactccaattatccaattgacattgacattgtcatgcaagcattttagtaacaacattccaattagtcaagcatttgacattgac$ tta att catggatta attttttatttattgata actagttt cag atttta caa getttigttta cea atttttigtgag cittigtttetig cataa acattigatta ataa accattigatta caa gettigtti cag attaa accattigatta caa gettigtti cag attaa accattigatta caa gettigtti cag attaa accattigatta caa gettig cataa accattigatta caa gettig cataa accattigatta caa gettig cataa accattigation caa gettig cataa accattig cataa accatcaga tetre cteattica a artigia et getta ta cet get geca et ga attiticette tigt ga cata tattigia et ta tattigia e a cata tatta a a cata tattigia et a cata tattigia e a catagacaattttgatttttctaacaattttttatcgtaggaaattttaccagctgcagatttagcagctggtttaatttttatatcattttttaatcaggctttactctccct ggtcaatctttgcatcttataatagttacataatgataggaatttgtgttgatctctaaccaagtttaacttgaatacctttatttgttgtcagtttaatttgtgttaa ca accatttt gaaaccca agat g tactca c t g ttact g c tt g t g caaaaaa at t caa at t g caca at t g caca

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#### FIGURE 10F

agagttatttattttgttttaatggttaaatcgctttttttgtttttgttagATGCATATCCGTGGTTGGAATGCTTCATCAAG TCATACAATGTCACAAATGGAACAGATAATCAAATTTGCTATCAGATTTTTGACACCACAGT TGCAGAAGATGTAATCTAAtattgccatccaatttagcatacataaaatgttgccactcaccttccctgtttgagcttcttttcctgacctga tgg attttgttttgctttctgttttgcttttgtacaaagagacctgcttaaacaagtactgctgagataagtgtctgatcaagctacagtgtactttaagtagaaatgatttetetattteaeeteaaeetaataaaagtggteagatttataatgttaatgaettaatattateettttetaatagteteatgtaaaatatgeegetattaeaaeetaatgtetaatgaetaatatgeegetattaeaaeetaatgtetaatgaetaatatgeegetaataatagtetaatgaetaatatgeegetaataatagtetaatgaetaatatgaetaatagaetagaetaatagaetaatatta caacta att gaat gagat gt taact tagtaa aat ag ttt gatt ttacct gacag t gt tt gaaat ttaaa aat cat gaat att caat tt tatacaa acat ttatat at tagta gagat gt taact tagta gagat gt taacta gaat gagat gt taacta gaat gagat gt taacta gaat gagat gt taacta gagat gagat gt taacta gagat gt taacta gagat gttgccctaagttgagctgaaaaatgatatgaggcaaagaatcgaaataggtgtggcaatgcagcagatgtttagggctgtctacatcccaggtactgtgc taag cactaaa cat g tattt g at cct cacag caacct at ttttccg at aag aaat ct g ag g ct t g at tag t tag t cacag g tt g at a g ct g act g actaagctagagtetgtgeettaatteacataatetetatteagageetgtaetgttaaceaeteaaggattetggaacagaagetaacagttttetgeaacgagt ctttgacttaaacatctgaaataacattggaaatagattataagaggagtcagtgtttttctatagtttcaaaatacttttaacatcttattgtcaaaaagattggataactgactttctttgctcataataactctaaattctagttcctgagtacattaacacatettctttacctaactaccaatgtcccccatcatcgacttatcagc ttgtttgagacaatgagaaagactgattttattttcaagaatatagactcttggttcaaaacattttcaggaaaaaatattttaaaaccctacagttgaacaggaacaggaatgtttccgtgttgatgatgtgctcaggatacaaaggtgaaataaacatttttctgccttcaggaagccctcaatctagaagagtagaggtccaaaggtgcc atatgttcacactgtgagcctgcaagatctccacgttaacaaaggaaaactcttcctatgaatcttcatgatgatagg

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### FIGURE 10G

# **Alternative forms of hPot1**

## partial genomic DNA lacking N-terminus

5	6	7	8	9	10	11	12	13+3'UTR
(119)	(56)	(156)	(205)	(135)	(88)	(91)	(105)	(112+702)
1 (1 m ) (1 m )		American Service 1		· · · · · · · · · · · · · · · · · · ·		سيشار بينسب		

splice variant #1: 72kDa protein lacking exon 5

splice variant #3: 38kDa protein containing exon 5

splice variant #4: 58kDa protein lacking exons 5 and 10